

Robert H Miller

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

5,747
citations

159358

30
h-index

143772

57
g-index

65
all docs

65
docs citations

65
times ranked

7453
citing authors

#	ARTICLE	IF	CITATIONS
1	LINGO-1 negatively regulates myelination by oligodendrocytes. <i>Nature Neuroscience</i> , 2005, 8, 745-751.	7.1	553
2	Human bone marrow-derived mesenchymal stem cells induce Th2-polarized immune response and promote endogenous repair in animal models of multiple sclerosis. <i>Glia</i> , 2009, 57, 1192-1203.	2.5	478
3	Regulation of oligodendrocyte development in the vertebrate CNS. <i>Progress in Neurobiology</i> , 2002, 67, 451-467.	2.8	377
4	Changing role of forebrain astrocytes during development, regenerative failure, and induced regeneration upon transplantation. <i>Journal of Comparative Neurology</i> , 1986, 251, 23-43.	0.9	369
5	Hepatocyte growth factor mediates mesenchymal stem cell-induced recovery in multiple sclerosis models. <i>Nature Neuroscience</i> , 2012, 15, 862-870.	7.1	365
6	Drug-based modulation of endogenous stem cells promotes functional remyelination in vivo. <i>Nature</i> , 2015, 522, 216-220.	13.7	336
7	Promotion of central nervous system remyelination by induced differentiation of oligodendrocyte precursor cells. <i>Annals of Neurology</i> , 2009, 65, 304-315.	2.8	270
8	CNS Myelin Wrapping Is Driven by Actin Disassembly. <i>Developmental Cell</i> , 2015, 34, 152-167.	3.1	262
9	Induction of myelinating oligodendrocytes in human cortical spheroids. <i>Nature Methods</i> , 2018, 15, 700-706.	9.0	242
10	Oligodendrocyte origins. <i>Trends in Neurosciences</i> , 1996, 19, 92-96.	4.2	219
11	CXCR2-positive neutrophils are essential for cuprizone-induced demyelination: relevance to multiple sclerosis. <i>Nature Neuroscience</i> , 2010, 13, 319-326.	7.1	209
12	Human iPSC Glial Mouse Chimeras Reveal Glial Contributions to Schizophrenia. <i>Cell Stem Cell</i> , 2017, 21, 195-208.e6.	5.2	204
13	Accumulation of 8,9-unsaturated sterols drives oligodendrocyte formation and remyelination. <i>Nature</i> , 2018, 560, 372-376.	13.7	170
14	Cell-based therapeutic strategies for multiple sclerosis. <i>Brain</i> , 2017, 140, 2776-2796.	3.7	139
15	Erythropoietin signaling promotes oligodendrocyte development following prenatal systemic hypoxic-ischemic brain injury. <i>Pediatric Research</i> , 2013, 74, 658-667.	1.1	111
16	Contact with Central Nervous System Myelin Inhibits Oligodendrocyte Progenitor Maturation. <i>Developmental Biology</i> , 1999, 216, 359-368.	0.9	103
17	Netrin 1 mediates spinal cord oligodendrocyte precursor dispersal. <i>Development (Cambridge)</i> , 2003, 130, 2095-2105.	1.2	101
18	Pharmaceutical integrated stress response enhancement protects oligodendrocytes and provides a potential multiple sclerosis therapeutic. <i>Nature Communications</i> , 2015, 6, 6532.	5.8	87

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19	Human Mesenchymal Stem Cells Signals Regulate Neural Stem Cell Fate. <i>Neurochemical Research</i> , 2007, 32, 353-362.	1.6	84
20	The roles of blood-derived macrophages and resident microglia in the neuroinflammatory response to implanted Intracortical microelectrodes. <i>Biomaterials</i> , 2014, 35, 8049-8064.	5.7	77
21	Patterning of spinal cord oligodendrocyte development by dorsally derived BMP4. <i>Journal of Neuroscience Research</i> , 2004, 76, 9-19.	1.3	69
22	Apoptosis of oligodendrocytes in the central nervous system results in rapid focal demyelination. <i>Annals of Neurology</i> , 2012, 72, 395-405.	2.8	60
23	Contribution of the oligodendrocyte lineage to CNS repair and neurodegenerative pathologies. <i>Neuropharmacology</i> , 2016, 110, 539-547.	2.0	60
24	Spinal cord oligodendrocytes develop from a limited number of migratory, highly proliferative precursors. , 1997, 50, 157-168.		52
25	Regulation of oligodendrocyte development. <i>Molecular Neurobiology</i> , 1998, 18, 247-259.	1.9	50
26	Targeting CD14 on blood derived cells improves intracortical microelectrode performance. <i>Biomaterials</i> , 2018, 163, 163-173.	5.7	47
27	Density dependent modulation of cell cycle protein expression in astrocytes. <i>Journal of Neuroscience Research</i> , 2001, 66, 487-496.	1.3	42
28	Cyclin-Dependent Kinase 5 Mediates Adult OPC Maturation and Myelin Repair through Modulation of Akt and GSK-3 β Signaling. <i>Journal of Neuroscience</i> , 2014, 34, 10415-10429.	1.7	40
29	Isolation and Culture of Spinal Cord Astrocytes. <i>Methods in Molecular Biology</i> , 2012, 814, 93-104.	0.4	37
30	Astrocytes Are Required for Oligodendrocyte Survival and Maintenance of Myelin Compaction and Integrity. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 74.	1.8	37
31	The potential of mesenchymal stem cells for neural repair. <i>Discovery Medicine</i> , 2010, 9, 236-42.	0.5	33
32	Modulation of Adhesion Molecule Expression on Rat Cortical Astrocytes During Maturation. <i>Journal of Neurochemistry</i> , 1993, 60, 1453-1466.	2.1	31
33	Loss of HDAC11 ameliorates clinical symptoms in a multiple sclerosis mouse model. <i>Life Science Alliance</i> , 2018, 1, e201800039.	1.3	31
34	Apoptosis of Oligodendrocytes during Early Development Delays Myelination and Impairs Subsequent Responses to Demyelination. <i>Journal of Neuroscience</i> , 2015, 35, 14031-14041.	1.7	27
35	Emerging Cellular and Molecular Strategies for Enhancing Central Nervous System (CNS) Remyelination. <i>Brain Sciences</i> , 2018, 8, 111.	1.1	27
36	Homotypic cell contact-dependent inhibition of astrocyte proliferation. , 1998, 22, 379-389.		25

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37	Cellular approaches for stimulating CNS remyelination. <i>Regenerative Medicine</i> , 2007, 2, 817-829.	0.8	25
38	B Cells in Neuroinflammation: New Perspectives and Mechanistic Insights. <i>Cells</i> , 2021, 10, 1605.	1.8	25
39	The Activators of Cyclin-Dependent Kinase 5 p35 and p39 Are Essential for Oligodendrocyte Maturation, Process Formation, and Myelination. <i>Journal of Neuroscience</i> , 2016, 36, 3024-3037.	1.7	24
40	Notochord is essential for oligodendrocyte development in <i>Xenopus</i> spinal cord. , 1997, 47, 361-371.		23
41	Restoring the balance between disease and repair in multiple sclerosis: insights from mouse models. <i>DMM Disease Models and Mechanisms</i> , 2010, 3, 535-539.	1.2	22
42	MSC Therapeutics in Chronic Inflammation. <i>Current Stem Cell Reports</i> , 2016, 2, 168-173.	0.7	22
43	A novel form of migration of glial precursors. , 1996, 16, 27-39.		18
44	Discovery of 1,2,3-Triazole Derivatives for Multimodality PET/CT/Cryoimaging of Myelination in the Central Nervous System. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 987-999.	2.9	16
45	Calcium control of myelin sheath growth. <i>Nature Neuroscience</i> , 2018, 21, 2-3.	7.1	15
46	In vitro and in vivo characterization of blastemal cells from regenerating newt limbs. <i>The Journal of Experimental Zoology</i> , 1992, 262, 180-192.	1.4	14
47	Community pharmacist outreach program directed at physicians treating congestive heart failure. <i>American Journal of Health-System Pharmacy</i> , 2000, 57, 747-752.	0.5	13
48	CNS disease diminishes the therapeutic functionality of bone marrow mesenchymal stem cells. <i>Experimental Neurology</i> , 2017, 295, 222-232.	2.0	13
49	Oligodendrocyte-specific loss of Cdk5 disrupts the architecture of nodes of Ranvier as well as learning and memory. <i>Experimental Neurology</i> , 2018, 306, 92-104.	2.0	13
50	Design, Synthesis, and Evaluation of Fluorinated Radioligands for Myelin Imaging. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 3705-3718.	2.9	12
51	A cell surface antigen expressed by astrocytes and their precursors. <i>Glia</i> , 1993, 8, 20-32.	2.5	11
52	Demyelination in the central nervous system mediated by an anti-oligodendrocyte antibody. , 1998, 54, 158-168.		10
53	Targeting glioma-initiating cells in GBM: ABTC-0904, a randomized phase 0/II study targeting the Sonic Hedgehog-signaling pathway.. <i>Journal of Clinical Oncology</i> , 2014, 32, 2026-2026.	0.8	8
54	Transcriptional Profiling of Mesenchymal Stem Cells Identifies Distinct Neuroimmune Pathways Altered by CNS Disease. <i>International Journal of Stem Cells</i> , 2018, 11, 48-60.	0.8	8

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55	Repurposing the cardiac glycoside digoxin to stimulate myelin regeneration in <scp>chemicallyâ€induced</scp> and <scp>immuneâ€mediated</scp> mouse models of multiple sclerosis. <i>Clia</i> , 2022, 70, 1950-1970.	2.5	7
56	Building bridges with astrocytes for spinal cord repair. , 2006, 5, 6.		5
57	Antibody-mediated oligodendrocyte cell death requires an astrocyte-derived cosignal. , 1998, 52, 137-148.		4
58	Cell type specific isolation of primary astrocytes and microglia from adult mouse spinal cord. <i>Journal of Neuroscience Methods</i> , 2022, 375, 109599.	1.3	4
59	A change of fate for nerve repair. <i>Nature</i> , 2017, 551, 41-42.	13.7	3
60	Oligodendrocyte ablation as a tool to study demyelinating diseases. <i>Neural Regeneration Research</i> , 2016, 11, 886-9.	1.6	3
61	Developmental ablation of mature oligodendrocytes exacerbates adult CNS demyelination. <i>Brain, Behavior, & Immunity - Health</i> , 2020, 7, 100110.	1.3	2
62	Renegade nuclear enzymes disrupt axonal integrity. <i>Nature Neuroscience</i> , 2010, 13, 143-144.	7.1	1
63	Refinement of axonal conduction and myelination in the mouse optic nerve indicate an extended period of postnatal developmental plasticity. <i>Developmental Neurobiology</i> , 2022, , .	1.5	1
64	Adherent self-renewable human embryonic stem cell-derived neural stem cell line: functional engraftment in experimental stroke model. <i>Regenerative Medicine</i> , 2008, 3, 275-279.	0.8	0